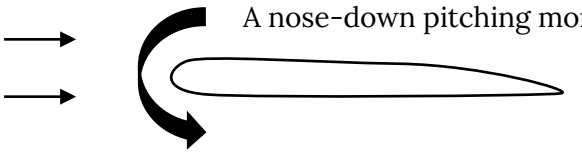

A nose-down pitching moment is defined as negative